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## SITE SUMMARY AND RECOMMENDATION

The Metz Metallurgical Corp. (Metz) site (CERCLIS ID No. NJD002195303) is an 11.9 acre site located in a light industrial area at 3900 South Clinton Avenue, in South Plainfield, Middlesex County, New Jersey. Approximately 9.2 acres of the site is owned by Degussa Corporation, Metz Division and approximately 2.6 acres of the site are leased by Degussa from S. Sorce. The site is bordered to the north by Warner-Jenkinson Co., Inc. and Wade Avenue; to the east by South Clinton Avenue; to the south by American Metal Warehouse Co., Inc. and a paved area owned by Degussa Corporation; and to the west by a wooded area and drainage ditch. The precious metals refining facility is currently active with a well-maintained fence.

Metz Metallurgical Corp. consists of three buildings, A through C. Building A houses all manufacturing operations. Building B is utilized for offices and for storage. Building C is an industrial warehouse located on the property leased from S. Sorce. There are on-site production wells that provides non-contact cooling water for the facility. The facility maintains 12 above ground storage tanks which include two nitric acid tanks, two sodium hydroxide tanks, one reagent grade hydrochloric acid tank, one low grade hydrochloric acid tank, one formaldehyde tank, one oxygen tank, two nitrogen tanks, one ammonia tank, and one brine tank. All the aboveground tanks have concrete or cinder block diking. Metz also maintains 12 USTs registered with the NJDEP under UST No. 0099525.

Metz is a precious metals manufacturer and refiner that began operations in January 1978. The majority of its operations involves extracting and refining silver. Other metals such as cadmium, gold, platinum, and copper are either alloyed with silver or refined in smaller quantities. The wastes generated from on-site operations include heavy metals and spent solvents from the recovery of precious metals and degreasing/cleaning operations. The facility discharges non-contact cooling water and storm water under NJDEP FWP No. NJ00010, through an unlined drainage ditch and catch-basin, to an unnamed tributary of Bound Brook. Wastewaters from Metz's wastewater treatment plant, containing salts, formaldehyde and methanol, are discharged to the MCUA sewer system, under Permit No. 24055.

Metz filed a RCRA Notification of Hazardous Waste Activity form as a TSDF on 15 August 1980. According to a 5 December 1983 letter from Metz to NJDEP, the EPA reclassified the facility from a TSDF to a generator of hazardous waste in July 1982. On 13 April 1984, NJDEP was delisted as a TSDF and was reclassified as a generator of hazardous waste and an existing IWMF.

Numerous inspections were conducted by NJDEP and MCHD. In June 1980, an unpermitted surface water discharge was observed. In April 1984, NJDEP noted drums containing waste oil, waste freon TF, and leaking capacitors within the facility's manufacturing buildings. A warning NOV was issued in January 1985 due to excessive black smoke emissions observed during a MCHD 26 December 1984 inspection. In September 1990, an NOV was issued by MCHD for failure to immediately notify NJDEP of a release of metal particulates. As the result of a 29 January 1991 inspection, Metz was issued a NOV charging the plant with allowing an acid-type odor to be transported beyond property

lines. A field NOV was issued during a 27 March 1991 NJDEP inspection because Metz failed to renew its UST registration.

Various spills and releases occurred during Metz's operations. In August 1982, approximately 1,000 gallons of 45% potassium hydroxide was released to an off-site drainage ditch, which resulted in the issuance of an NOV by NJDEP. An unadjusted, caustic solution was discharged directly to MCUA sewer system, causing the release of some NOX in November 1982. In October 1985, 2.04 pounds of NOX were released. An AO and a Notice of Civil Penalty Assessment was issued for overcharging the vessel. Silver chloride was released to the NJPDES permitted outfall in the drainage ditch in February 1986, January 1989, and September 1989. In March 1988, approximately 100 gallons of a corrosive liquid was released onto site soils. Approximately ten gallons of heat transfer fluid was released to the NJPDES permitted outfall in March 1989. Approximately 15 pounds of silver powder/flake was released to the atmosphere in December 1990.

On 30 January 1986, Metz sold the real estate and business to Degussa Ag. As a result of this sale, Metz submitted the General Information Submission and the Site Evaluation Submission for ECRA to the NJDEP on 3 February 1986, and 26 February 1986, respectively. On 23 July 1986, Metz entered into an ACO with the NJDEP in order to carry out the ECRA investigation after the close of the sale of Metz to Degussa. The resulting ECRA investigation included extensive soil and sediment samples collected from seven areas of concern that include: former drum and equipment storage areas (Areas A through D), the drainage ditch receiving the NJPDES outfall (Area E), a former UST location (Area F), and soils adjacent to a monitoring well (Area G). Soils and/or sediments were excavated from Areas A, C, E, and F. Several sample locations in Areas A through D contain arsenic and beryllium at concentrations greater than EPA's SSLs. However, Areas A through C are currently covered with concrete and asphalt. Groundwater samples were also collected from on-site monitoring wells. No contaminants were detected in downgradient groundwater samples at concentrations three times greater than upgradient, background samples. NJDEP granted no further action to Metz for each area of concern and determined that the cleanup was completed on 25 October 1992. The facility was released of its financial assurance requirements on 28 October 1992.

On 15 September 1989, the NUS Corporation under EPA's FIT contract prepared a Potential Hazardous Waste Site Preliminary Assessment Report. The report recommends that the site be given a "high priority." On 25 September 1991, NJDEP conducted a site reconnaissance of the Metz facility as part of the SI. The final Site Inspection Report, dated 3 September 1991, recommended the site for "no further action." Region II START conducted an off-site reconnaissance at Metz on 21 May 1999 for preparation of the Site Inspection Prioritization Report.

The aquifer of concern provides drinking water to approximately 96,022 persons through public and private wells within a 4-mile radius of the site. The nearest well currently used for drinking purposes is a private well located within the 0 to 0.25-mile distance ring. The exact location is unknown. The

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## SITE SUMMARY AND RECOMMENDATION

nearest down slope surface water is a drainage ditch adjacent to the northwest corner of the site. There are no drinking water intakes along the surface water pathway. The Bound Brook, Green Brook, and Raritan River portions of the surface water pathway within the target distance limit support fisheries. There are approximately 18.2 miles of wetland frontage, and six sensitive environments along the 15-mile surface water pathway. There are no residences, schools or day care facilities located within 200 feet of the site. There are 170,939 residents, 3,972.5 wetland acres, and seven sensitive environments within a 4-mile radius of the site.

PREScore analysis of the Metz Metallurgical Corp. site resulted in an overall Hazard Ranking System (HRS) score of 12.16. This site score was calculated based upon preexisting and updated information. Based on an evaluation of the above conditions, a recommendation of **NO FURTHER REMEDIAL ACTION PLANNED (NFRAP)** is given for the Metz Metallurgical Corp. site.

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PREScore 4.1
HRS DOCUMENTATION RECORD
Metz Metallurgical Corp. - 01/04/00

1. Site Name: Metz Metallurgical Corp.
   (as entered in CERCLIS)

2. Site CERCLIS Number: NJD002195303

3. Site Reviewer: K. Dorneman

4. Date: 5/17/99

5. Site Location: South Plainfield/Middlesex Co., NJ
   (City/County,State)

6. Congressional District: 06

7. Site Coordinates: Single

   Latitude: 40°33'55.7" Longitude: 074°25'48.1"

| | Score |
|---|---|
| Ground Water Migration Pathway Score (Sgw) | 24.16 |
| Surface Water Migration Pathway Score (Ssw) | 2.09 |
| Soil Exposure Pathway Score (Ss) | 1.20 |
| Air Migration Pathway Score (Sa) | 1.32 |

| | |
|---|---|
| Site Score | 12.16 |

NOTE

Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

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PREScore 4.1
WASTE QUANTITY
Metz Metallurgical Corp. - 01/04/00

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: contaminated soil

| | |
|---|---|
| a. Wastestream ID | |
| b. Hazardous Constituent Quantity (C) (lbs.) | 0.00 |
| c. Data Complete? | NO |
| d. Hazardous Wastestream Quantity (W) (lbs.) | 0.00 |
| e. Data Complete? | NO |
| f. Wastestream Quantity Value (W/5,000) | 0.00E+00 |

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PREScore 4.1
WASTE QUANTITY
Metz Metallurgical Corp. - 01/04/00

## 2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

| | | | |
|---|---|---|---|
| a. Source ID | | contaminated soil | |
| b. Source Type | | Contaminated Soil | |
| c. Secondary Source Type | | N.A. | |
| d. Source Vol.(yd3/gal) | Source Area (ft2) | 0.00 | 24508.00 |
| e. Source Volume/Area Value | | 7.21E-01 | |
| f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b) | | 0.00E+00 | |
| g. Data Complete? | | NO | |
| h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f) | | 0.00E+00 | |
| i. Data Complete? | | NO | |
| k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h) | | 7.21E-01 | |

| Source Hazardous Substances | Depth (feet) | Liquid | Concent. | Units |
|---|---|---|---|---|
| Arsenic | < 2 | NO | 2.7E+00 | ppm |
| Beryllium | < 2 | NO | 9.6E-01 | ppm |

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PREScore 4.1
WASTE QUANTITY
Metz Metallurgical Corp. - 01/04/00

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: KOH Bulk Tank

| | |
|---|---|
| a. Wastestream ID | KOH |
| b. Hazardous Constituent Quantity (C) (lbs.) | 4500.00 |
| c. Data Complete? | NO |
| d. Hazardous Wastestream Quantity (W) (lbs.) | 10000.00 |
| e. Data Complete? | NO |
| f. Wastestream Quantity Value (W/5,000) | 2.00E+00 |

| Wastestream Constituent Hazardous Substances | Concent. | Units | Liquid | Qualifier |
|---|---|---|---|---|
| Potassium | 4.5E+01 | % | YES | |

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PREScore 4.1
WASTE QUANTITY
Metz Metallurgical Corp. - 01/04/00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

| | | | |
|---|---|---|---|
| a. Source ID | | KOH Bulk Tank | |
| b. Source Type | | Non-Drum Container | |
| c. Secondary Source Type | | N.A. | |
| d. Source Vol.(yd3/gal) | Source Area (ft2) | 0.00 | 0.00 |
| e. Source Volume/Area Value | | 0.00E+00 | |
| f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b) | | 4.50E+03 | |
| g. Data Complete? | | NO | |
| h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f) | | 2.00E+00 | |
| i. Data Complete? | | NO | |
| k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h) | | 4.50E+03 | |

PREScore 4.1
WASTE QUANTITY
Metz Metallurgical Corp. - 01/04/00

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Pipes and Vents

| | |
|---|---|
| a. Wastestream ID | vents and pipes |
| b. Hazardous Constituent Quantity (C) (lbs.) | 0.01 |
| c. Data Complete? | NO |
| d. Hazardous Wastestream Quantity (W) (lbs.) | 250.80 |
| e. Data Complete? | NO |
| f. Wastestream Quantity Value (W/5,000) | 5.02E-02 |

| Wastestream Constituent Hazardous Substances | Concent. | Units | Liquid | Qualifier |
|---|---|---|---|---|
| Silver | 5.6E+01 | ppm | YES | |

PREScore 4.1
WASTE QUANTITY
Metz Metallurgical Corp. - 01/04/00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

| | | | |
|---|---|---|---|
| a. Source ID | | Pipes and Vents | |
| b. Source Type | | Other | |
| c. Secondary Source Type | | N.A. | |
| d. Source Vol.(yd3/gal) | Source Area (ft2) | 0.00 | 0.00 |
| e. Source Volume/Area Value | | 0.00E+00 | |
| f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b) | | 1.40E-02 | |
| g. Data Complete? | | NO | |
| h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f) | | 5.02E-02 | |
| i. Data Complete? | | NO | |
| k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h) | | 5.02E-02 | |

PREScore 4.1
WASTE QUANTITY
Metz Metallurgical Corp. - 01/04/00

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

| No. | Source ID | Migration Pathways | Vol. or Area Value (2e) | Constituent or Wastestream Value (2f,2h) | Hazardous Waste Qty. Value (2k) |
|---|---|---|---|---|---|
| 1 | contaminated soil | GW-SW-A | 7.21E-01 | 0.00E+00 | 7.21E-01 |
| 2 | KOH Bulk Tank | GW-SW-A | 0.00E+00 | 4.50E+03 | 4.50E+03 |
| 3 | Pipes and Vents | GW-SW-A | 0.00E+00 | 5.02E-02 | 5.02E-02 |

PREScore 4.1
WASTE QUANTITY
Metz Metallurgical Corp. - 01/04/00

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

| Migration Pathway | Contaminant Values | | HWQVs* | WCVs** |
|---|---|---|---|---|
| Ground Water | Toxicity/Mobility | 1.00E+02 | 100 | 10 |
| SW: Overland Flow, DW | Tox./Persistence | 1.00E+04 | 100 | 32 |
| SW: Overland Flow, HFC | Tox./Persis./Bioacc. | 5.00E+05 | 100 | 56 |
| SW: Overland Flow, Env | Etox./Persis./Bioacc. | 5.00E+05 | 100 | 56 |
| SW: GW to SW, DW | Tox./Persistence | 1.00E+02 | 100 | 10 |
| SW: GW to SW, HFC | Tox./Persis./Bioacc. | 5.00E+03 | 100 | 18 |
| SW: GW to SW, Env | Etox./Persis./Bioacc. | 5.00E+05 | 100 | 56 |
| Soil Exposure:Resident | Toxicity | 1.00E+04 | 10 | 18 |
| Soil Exposure: Nearby | Toxicity | 0.00E+00 | 0 | 0 |
| Air | Toxicity/Mobility | 2.00E+00 | 100 | 3 |

* Hazardous Waste Quantity Factor Values
** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

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PREScore 4.1
GROUND WATER MIGRATION PATHWAY SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| GROUND WATER MIGRATION PATHWAY Factor Categories & Factors | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Release to an Aquifer<br>Aquifer: Brunswick Formation | | |
| 1. Observed Release | 550 | 0 |
| 2. Potential to Release | | |
| 2a. Containment | 10 | 10 |
| 2b. Net Precipitation | 10 | 6 |
| 2c. Depth to Aquifer | 5 | 5 |
| 2d. Travel Time | 35 | 5 |
| 2e. Potential to Release [lines 2a(2b+2c+2d)] | 500 | 160 |
| 3. Likelihood of Release | 550 | 160 |
| Waste Characteristics | | |
| 4. Toxicity/Mobility | * | 1.00E+02 |
| 5. Hazardous Waste Quantity | * | 100 |
| 6. Waste Characteristics | 100 | 10 |
| Targets | | |
| 7. Nearest Well | 50 | 2.00E+01 |
| 8. Population | | |
| 8a. Level I Concentrations | ** | 0.00E+00 |
| 8b. Level II Concentrations | ** | 0.00E+00 |
| 8c. Potential Contamination | ** | 1.22E+03 |
| 8d. Population (lines 8a+8b+8c) | ** | 1.22E+03 |
| 9. Resources | 5 | 5.00E+00 |
| 10. Wellhead Protection Area | 20 | 0.00E+00 |
| 11. Targets (lines 7+8d+9+10) | ** | 1.25E+03 |
| 12. Targets (including overlaying aquifers) | ** | 1.25E+03 |
| 13. Aquifer Score | 100 | 24.16 |
| GROUND WATER MIGRATION PATHWAY SCORE (Sgw) | 100 | 24.16 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREScore 4.1
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT<br>Factor Categories & Factors<br>DRINKING WATER THREAT | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Release | | |
| 1. Observed Release | 550 | 0 |
| 2. Potential to Release by Overland Flow | | |
| 2a. Containment | 10 | 10 |
| 2b. Runoff | 25 | 1 |
| 2c. Distance to Surface Water | 25 | 25 |
| 2d. Potential to Release by Overland Flow [lines 2a(2b+2c)] | 500 | 260 |
| 3. Potential to Release by Flood | | |
| 3a. Containment (Flood) | 10 | 0 |
| 3b. Flood Frequency | 50 | 0 |
| 3c. Potential to Release by Flood (lines 3a x 3b) | 500 | 0 |
| 4. Potential to Release (lines 2d+3c) | 500 | 260 |
| 5. Likelihood of Release | 550 | 260 |
| Waste Characteristics | | |
| 6. Toxicity/Persistence | * | 1.00E+04 |
| 7. Hazardous Waste Quantity | * | 100 |
| 8. Waste Characteristics | 100 | 32 |
| Targets | | |
| 9. Nearest Intake | 50 | 0.00E+00 |
| 10. Population | | |
| 10a. Level I Concentrations | ** | 0.00E+00 |
| 10b. Level II Concentrations | ** | 0.00E+00 |
| 10c. Potential Contamination | ** | 0.00E+00 |
| 10d. Population (lines 10a+10b+10c) | ** | 0.00E+00 |
| 11. Resources | 5 | 5.00E+00 |
| 12. Targets (lines 9+10d+11) | ** | 5.00E+00 |
| 13. DRINKING WATER THREAT SCORE | 100 | 0.50 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREScore 4.1
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT<br>Factor Categories & Factors<br>HUMAN FOOD CHAIN THREAT | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Release | | |
| 14. Likelihood of Release (same as line 5) | 550 | 260 |
| Waste Characteristics | | |
| 15. Toxicity/Persistence/Bioaccumulation | * | 5.00E+05 |
| 16. Hazardous Waste Quantity | * | 100 |
| 17. Waste Characteristics | 1000 | 56 |
| Targets | | |
| 18. Food Chain Individual | 50 | 2.00E+00 |
| 19. Population | | |
| 19a. Level I Concentrations | ** | 0.00E+00 |
| 19b. Level II Concentrations | ** | 0.00E+00 |
| 19c. Pot. Human Food Chain Contamination | ** | 6.03E-04 |
| 19d. Population (lines 19a+19b+19c) | ** | 6.03E-04 |
| 20. Targets (lines 18+19d) | ** | 2.00E+00 |
| 21. HUMAN FOOD CHAIN THREAT SCORE | 100 | 0.35 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREScore 4.1
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT<br>Factor Categories & Factors<br>ENVIRONMENTAL THREAT | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Release | | |
| 22. Likelihood of Release (same as line 5) | 550 | 260 |
| Waste Characteristics | | |
| 23. Ecosystem Toxicity/Persistence/Bioacc. | * | 5.00E+05 |
| 24. Hazardous Waste Quantity | * | 100 |
| 25. Waste Characteristics | 1000 | 56 |
| Targets | | |
| 26. Sensitive Environments | | |
| 26a. Level I Concentrations | ** | 0.00E+00 |
| 26b. Level II Concentrations | ** | 0.00E+00 |
| 26c. Potential Contamination | ** | 7.00E+00 |
| 26d. Sensitive Environments (lines 26a+26b+26c) | ** | 7.00E+00 |
| 27. Targets (line 26d) | ** | 7.00E+00 |
| 28. ENVIRONMENTAL THREAT SCORE | 60 | 1.24 |
| 29. WATERSHED SCORE | 100 | 2.09 |
| 30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof) | 100 | 2.09 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREScore 4.1
GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| GROUND WATER TO SURFACE WATER MIGRATION COMPONENT<br>Factor Categories & Factors<br>DRINKING WATER THREAT | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Release to Aquifer<br>Aquifer: Brunswick Formation | | |
| 1. Observed Release | 550 | 0 |
| 2. Potential to Release | | |
| 2a. Containment | 10 | 10 |
| 2b. Net Precipitation | 10 | 6 |
| 2c. Depth to Aquifer | 5 | 5 |
| 2d. Travel Time | 35 | 5 |
| 2e. Potential to Release [lines 2a(2b+2c+2d)] | 500 | 160 |
| 3. Likelihood of Release | 550 | 160 |
| Waste Characteristics | | |
| 4. Toxicity/Mobility/Persistence | * | 1.00E+02 |
| 5. Hazardous Waste Quantity | * | 100 |
| 6. Waste Characteristics | 100 | 10 |
| Targets | | |
| 7. Nearest Intake | 50 | 0.00E+00 |
| 8. Population | | |
| 8a. Level I Concentrations | ** | 0.00E+00 |
| 8b. Level II Concentrations | ** | 0.00E+00 |
| 8c. Potential Contamination | ** | 0.00E+00 |
| 8d. Population (lines 8a+8b+8c) | ** | 0.00E+00 |
| 9. Resources | 5 | 5.00E+00 |
| 10. Targets (lines 7+8d+9) | ** | 5.00E+00 |
| 11. DRINKING WATER THREAT SCORE | 100 | 0.10 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

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PREScore 4.1
GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| GROUND WATER TO SURFACE WATER MIGRATION COMPONENT<br>Factor Categories & Factors<br>HUMAN FOOD CHAIN THREAT | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Release | | |
| 12. Likelihood of Release (same as line 3) | 550 | 160 |
| Waste Characteristics | | |
| 13. Toxicity/Mobility/Persistence/Bioacc. | * | 5.00E+03 |
| 14. Hazardous Waste Quantity | * | 100 |
| 15. Waste Characteristics | 1000 | 18 |
| Targets | | |
| 16. Food Chain Individual | 50 | 0.00E+00 |
| 17. Population | | |
| 17a. Level I Concentrations | ** | 0.00E+00 |
| 17b. Level II Concentrations | ** | 0.00E+00 |
| 17c. Pot. Human Food Chain Contamination | ** | 0.00E+00 |
| 17d. Population (lines 17a+17b+17c) | ** | 0.00E+00 |
| 18. Targets (lines 16+17d) | ** | 0.00E+00 |
| 19. HUMAN FOOD CHAIN THREAT SCORE | 100 | 0.00 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREScore 4.1
GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| GROUND WATER TO SURFACE WATER MIGRATION COMPONENT<br>Factor Categories & Factors<br>ENVIRONMENTAL THREAT | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Release | | |
| 20. Likelihood of Release (same as line 3) | 550 | 160 |
| Waste Characteristics | | |
| 21. Ecosystem Tox./Mobility/Persist./Bioacc. | * | 5.00E+05 |
| 22. Hazardous Waste Quantity | * | 100 |
| 23. Waste Characteristics | 1000 | 56 |
| Targets | | |
| 24. Sensitive Environments | | |
| 24a. Level I Concentrations | ** | 0.00E+00 |
| 24b. Level II Concentrations | ** | 0.00E+00 |
| 24c. Potential Contamination | ** | 0.00E+00 |
| 24d. Sensitive Environments (lines 24a+24b+24c) | ** | 0.00E+00 |
| 25. Targets (line 24d) | ** | 0.00E+00 |
| 26. ENVIRONMENTAL THREAT SCORE | 60 | 0.00 |
| 27. WATERSHED SCORE | 100 | 0.10 |
| 28. SW: GW to SW COMPONENT SCORE (Sgs) | 100 | 0.10 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREScore 4.1
SOIL EXPOSURE PATHWAY SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| SOIL EXPOSURE PATHWAY<br>Factor Categories & Factors<br>RESIDENT POPULATION THREAT | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Exposure | | |
| 1. Likelihood of Exposure | 550 | 550 |
| Waste Characteristics | | |
| 2. Toxicity | * | 1.00E+04 |
| 3. Hazardous Waste Quantity | * | 10 |
| 4. Waste Characteristics | 100 | 18 |
| Targets | | |
| 5. Resident Individual | 50 | 0.00E+00 |
| 6. Resident Population | | |
| 6a. Level I Concentrations | ** | 0.00E+00 |
| 6b. Level II Concentrations | ** | 0.00E+00 |
| 6c. Resident Population (lines 6a+6b) | ** | 0.00E+00 |
| 7. Workers | 15 | 1.00E+01 |
| 8. Resources | 5 | 0.00E+00 |
| 9. Terrestrial Sensitive Environments | *** | 0.00E+00 |
| 10. Targets (lines 5+6c+7+8+9) | ** | 1.00E+01 |
| 11. RESIDENT POPULATION THREAT SCORE | ** | 9.90E+04 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

PREScore 4.1
SOIL EXPOSURE PATHWAY SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| SOIL EXPOSURE PATHWAY<br>Factor Categories & Factors<br>NEARBY POPULATION THREAT | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Exposure | | |
| 12. Attractiveness/Accessibility | 100 | 0.00E+00 |
| 13. Area of Contamination | 100 | 0.00E+00 |
| 14. Likelihood of Exposure | 500 | 0.00E+00 |
| Waste Characteristics | | |
| 15. Toxicity | * | 0.00E+00 |
| 16. Hazardous Waste Quantity | * | 0 |
| 17. Waste Characteristics | 100 | 0 |
| Targets | | |
| 18. Nearby Individual | 1 | 1.00E+00 |
| 19. Population Within 1 Mile | ** | 6.00E+00 |
| 20. Targets (lines 18+19) | ** | 7.00E+00 |
| 21. NEARBY POPULATION THREAT SCORE | ** | 0.00E+00 |
| SOIL EXPOSURE PATHWAY SCORE (Ss) | 100 | 1.20 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREScore 4.1
AIR PATHWAY SCORESHEET
Metz Metallurgical Corp. - 01/04/00

| AIR MIGRATION PATHWAY<br>Factor Categories & Factors | Maximum Value | Value Assigned |
|---|---|---|
| Likelihood of Release | | |
| 1. Observed Release | 550 | 0 |
| 2. Potential to Release | | |
| 2a. Gas Potential to Release | 500 | 0 |
| 2b. Particulate Potential to Release | 500 | 280 |
| 2c. Potential to Release | 500 | 280 |
| 3. Likelihood of Release | 550 | 280 |
| Waste Characteristics | | |
| 4. Toxicity/Mobility | * | 2.00E+00 |
| 5. Hazardous Waste Quantity | * | 100 |
| 6. Waste Characteristics | 100 | 3 |
| Targets | | |
| 7. Nearest Individual | 50 | 2.00E+01 |
| 8. Population | | |
| 8a. Level I Concentrations | ** | 0.00E+00 |
| 8b. Level II Concentrations | ** | 0.00E+00 |
| 8c. Potential Contamination | ** | 1.01E+02 |
| 8d. Population (lines 8a+8b+8c) | ** | 1.01E+02 |
| 9. Resources | 5 | 5.00E+00 |
| 10. Sensitive Environments | | |
| 10a. Actual Contamination | *** | 0.00E+00 |
| 10b. Potential Contamination | *** | 4.00E+00 |
| 10c. Sens. Environments(lines 10a+10b) | *** | 4.00E+00 |
| 11. Targets (lines 7+8d+9+10c) | ** | 1.30E+02 |
| AIR MIGRATION PATHWAY SCORE (Sa) | 100 | 1.32E+00 |

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.